

US EPA ARCHIVE DOCUMENT

## **APPENDIX C**

### **ESTIMATES FOR DISPOSAL OF CONSTRUCTION AND DEMOLITION WASTE**

## Estimates for Disposal of Construction and Demolition Waste

### 1. Annual construction & demolition (C&D) waste generation rates

|                             |  |
|-----------------------------|--|
| Building construction waste |  |
| Residential                 | 4 million tons                                 |
| Non-residential             | 1.1 million tons                               |
| Building demolition waste   |  |
| Residential                 | 10 million tons                                |
| Non-residential             | 23 million tons                                |
| Other C&D waste             | 104 million tons                               |
|                             | (highway construction, repair and maintenance) |

|              |                   |
|--------------|-------------------|
| <b>Total</b> | <b>142 M Tons</b> |
|--------------|-------------------|

### 2. Annual C&D waste disposal rate

|                             |                     |
|-----------------------------|---------------------|
| Building construction waste | 4.44 million tons   |
| Building demolition waste   | 11.8 million tons   |
| Subtotal                    | 16.24 million tons  |
| Other C&D waste             | 15.36 million tons* |
| Total                       | 31.6 million tons   |

\* The remaining quantities consisting of asphalt, concrete, steel, metal recycled or stockpiled for future use.

### 3. Estimates for painted lead-based paint (LBP) debris quantities (million tons/yr)

| Waste Type                | Before 2010 | After 2010  |
|---------------------------|-------------|-------------|
| C&D waste                 | 30.0        | 18          |
| Painted demolition debris | 0.83*       | 0.83        |
| LBP abatement debris      | 0.56**      | 0.34***     |
| <b>Total</b>              | <b>32.4</b> | <b>19.2</b> |

\* 21% of demolition waste disposed is wood and assumed that one-third of the wood is painted debris.

\*\* 19.1 million tons of LBP abatement debris disposed over 34 years (Appendix D).

\*\*\* Reduction in LBP abatement debris quantities due to recycling of debris according to the TSCA management standards proposed in this rule.

Source: Franklin Associates, 1995